

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>18</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2092_01_f_2012_18				
Comment Code					
Inspector Comment					
A few members of the company have already been through a few flood events and received proper training. They are planning to attend flood fight training course this season.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>24</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2092_01_s_2012_24				
Comment Code					
Inspector Comment					
They have the latest O&M manual for their district.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>26</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
			°		°
DWR ID	DWR_RD2092_01_s _ 2012_26				
Comment Code					
Inspector Comment					
LMA has adequate flood fighting supplies.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>16</b>
LM End	<b>3.70</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.602571°	37.573279°	
			-121.158169°	-121.140563°	
DWR ID	DWR_RD2092_01_s _ 2018_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control where needed.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>15</b>
LM End	<b>3.70</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.602568°	37.573279°	
			-121.158168°	-121.140563°	
DWR ID	DWR_RD2092_01_s _ 2018_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control where needed.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	0.18	Rating **	M	Issue No.	973
LM End	0.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.602031 °	37.602031 °
				-121.161249 °	-121.161249 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:27123 DS_ID:20561 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe rusted through at headwall on LS toe. Good candidate for video inspection. FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)]. FS Date: 1/16/2014 12:03:14 PM					

Photo 1 of 3 : UCIP\_SP\_2018\_27123\_50242.jpg



Slide gate in 80-inch CMP riser on WS slope.

LM Start	<b>0.18</b>	Rating **	M	Issue No.	<b>973 (cont)</b>
LM End	<b>0.18</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_27123\_50241.jpg



Concrete headwall on LS toe in front of pump on pier.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	0.18	Rating **	M	Issue No.	973 (cont)
LM End	0.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.602031 °	37.602031 °
				-121.161249 °	-121.161249 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:27123					
DS_ID:20561					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe rusted through at headwall on LS toe. Good candidate for video inspection.					
FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)].					
FS Date: 1/16/2014 12:03:14 PM					

Photo 3 of 3 : UCIP\_SP\_2018\_27123\_50240.jpg



Flapgate and headwall on WS toe.

LM Start	0.44	Rating **	U	Issue No.	31
LM End	0.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.601149 °	37.601149 °
				-121.165772 °	-121.165772 °
DWR ID	DWR_RD2092_01_s_2018_31				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Remove small tree on waterward should before tree is establish.					

Photo 1 of 1 : SP\_2018\_RD2092\_116\_31\_20180330\_00047.jpg

Looking upstream at small tree on waterward should next to pole.  
(Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	0.61	Rating **	U	Issue No.	21
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.599208 °	37.599208 °
				-121.167150 °	-121.167150 °
DWR ID	DWR_RD2092_01_s_2018_21				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove small tree on waterward shoulder before tree is establish.					

Photo 1 of 1 : SP\_2018\_RD2092\_116\_21\_20180330\_00046.jpg



Looking downstream at small tree on waterward slope. (Spring 2018)

LM Start	1.29	Rating **	M	Issue No.	39
LM End	1.31	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.590701 °	37.590524 °
				-121.164339 °	-121.163947 °
DWR ID	DWR_RD2092_01_s_2017_39				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2092\_116\_39\_20180330\_00045.jpg



Looking upstream at rutting and depression on levee crown. (Spring 2018)

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	1.30	Rating **	A/W	Issue No.	976
LM End	1.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.590603 °	37.590603 °
				-121.164111 °	-121.164111 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20889 DS_ID:20562 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 4-foot by 6-foot concrete distribution box on the landside (LS) toe. 5-foot by 5-foot concrete riser on the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.31)]. FS Date: 9/24/2013					

Photo 1 of 2 : UCIP\_SP\_2018\_20889\_35213.jpg



Slide gate in 48-inch CMP riser on WS slope.

LM Start	1.30	Rating **	A/W	Issue No.	976 (cont)
LM End	1.30	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_20889\_35212.jpg



Concrete distribution box at concrete canal on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	1.32	Rating **	A/W	Issue No.	10
LM End	1.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.590467 °	37.590467 °
				-121.163822 °	-121.163822 °
DWR ID	DWR_RD2092_01_s_2012_10				
Comment Code					
PI : Pipe					
Inspector Comment					
A sand boil appeared on the landside toe of the levee because of an underground pipe leakage. The pipe and boil have been repaired but should be monitored.					

Photo 1 of 2 : SP\_2018\_RD2092\_116\_10\_20180307\_00002.jpg



During spring inspection 2012, the sand boil was not active but materials were present on the landside toe of the levee. The sand boil occurred due to an underground irrigation pipe leakage. The picture was taken from the crown looking toward the toe of the levee. The area was repaired but should be monitored.

LM Start	<b>1.32</b>	Rating **	A/W	Issue No.	<b>10 (cont)</b>
LM End	<b>1.32</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_RD2092\_116\_10\_20180307\_00003.jpg



A sand boil was found on the landside of the levee. It was caused by a pipe leak couple of feet below the boil location. LMA was notified to repair it as soon as possible. The picture was taken from the crown looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	1.69	Rating **	A/W	Issue No.	977
LM End	1.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.585938 °	37.585938 °
				-121.163348 °	-121.163348 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20891 DS_ID:20563 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.71)]. FS Date: 9/24/2013					

LM Start	<b>1.69</b>	Rating **	A/W	Issue No.	<b>977 (cont)</b>
LM End	<b>1.69</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_20891\_35216.jpg



Slide gate in 36-inch CMP riser on WS slope.

Photo 2 of 3 : UCIP\_SP\_2018\_20891\_35215.jpg



Slide gate in 36-inch CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	1.69	Rating **	A/W	Issue No.	977 (cont)	
LM End	1.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.585938 °	37.585938 °	
				-121.163348 °	-121.163348 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20891						
DS_ID:20563						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.71)].						
FS Date: 9/24/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_20891\_35214.jpg



Concrete headwall at base of LS toe.

LM Start	1.92	Rating **	M	Issue No.	37
LM End	1.92	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.584273 °	37.584273 °
				-121.161034 °	-121.161034 °
DWR ID	DWR_RD2092_01_s_2017_37				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	2.04	Rating **	M	Issue No.	29
LM End	2.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.584270 °	37.584270 °
				-121.158820 °	-121.158820 °
DWR ID	DWR_RD2092_01_s_2017_29				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	2.07	Rating **	A/W	Issue No.	978
LM End	2.07	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.584212 °	37.584212 °
				-121.158347 °	-121.158347 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20904 DS_ID:20564 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on both ends. Filled with concrete on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.10), 36-inch pipe listed]. FS Date: 9/24/2013					

Photo 1 of 2 : UCIP\_SP\_2018\_20904\_35221.jpg



Pipe and concrete headwall visible on LS toe to right of powerpole.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	2.07	Rating **	A/W	Issue No.	978 (cont)
LM End	2.07	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.584212 °	37.584212 °
				-121.158347 °	-121.158347 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20904 DS_ID:20564 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on both ends. Filled with concrete on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.10), 36-inch pipe listed]. FS Date: 9/24/2013					

Photo 2 of 2 : UCIP\_SP\_2018\_20904\_35220.jpg



Pipe and concrete headwall visible on LS toe.

LM Start	2.20	Rating **	M	Issue No.	30
LM End	2.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.583080 °	37.583080 °
				-121.156387 °	-121.156387 °
DWR ID	DWR_RD2092_01_s_2017_30				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	2.40	Rating **	M	Issue No.	981 (cont)
LM End	2.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.580426 °	37.580426 °
				-121.156798 °	-121.156798 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20943 DS_ID:20567 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the WS end. Concrete headwall on the landside (LS) toe next to pump. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.44)]. FS Date: 9/24/2013					

Photo 3 of 3 : UCIP\_SP\_2018\_20943\_35252.jpg



Concrete headwall next to pump on WS toe.

LM Start	2.55	Rating **	U	Issue No.	19
LM End	2.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.578333 °	37.578333 °
				-121.157011 °	-121.157011 °
DWR ID	DWR_RD2092_01_s_2018_19				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Palm tree at landward toe should be removed.					

Photo 1 of 1 : SP\_2018\_RD2092\_116\_19\_20180330\_00044.jpg



Looking at Palm tree at landward toe. (Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	2.63	Rating **	U	Issue No.	17
LM End	2.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.577186°	37.575843°
				-121.157159°	-121.157228°
DWR ID	DWR_RD2092_01_s_2018_17				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes within this reach.					

Photo 1 of 4 : SP\_2018\_RD2092\_116\_17\_20180330\_00041.jpg



Looking upstream on waterward slope at several large rodent holes.  
(Spring 2018)

LM Start	<b>2.63</b>	Rating **	U	Issue No.	<b>17 (cont)</b>
LM End	<b>2.72</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP\_2018\_RD2092\_116\_17\_20180330\_00042.jpg



Looking at typical large rodent holes on waterward slope. (Spring 2018)

LM Start	<b>2.63</b>	Rating **	U	Issue No.	<b>17 (cont)</b>
LM End	<b>2.72</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2018\_RD2092\_116\_17\_20180330\_00040.jpg



Looking downstream at several rodent holes on waterward slope.  
(Spring 2018)

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	2.63	Rating **	U	Issue No.	17 (cont)	
LM End	2.72	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.577186 °		37.575843 °
				-121.157159 °		-121.157228 °
DWR ID	DWR_RD2092_01_s_2018_17					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Several large rodent holes within this reach.						

Photo 4 of 4 : SP\_2018\_RD2092\_116\_17\_20180330\_00043.jpg



Looking upstream at large rodent holes on waterward slope. (Spring 2018)

LM Start	2.82	Rating **	U	Issue No.	35
LM End	3.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.574869 °	37.574141 °
				-121.156247 °	-121.152762 °
DWR ID	DWR_RD2092_01_s_2017_35				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 4 : SP\_2018\_RD2092\_116\_35\_20180307\_00006.jpg



Updated picture of the rodent holes on the waterside of the levee looking upstream. Fall 2017

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	2.82	Rating **	U	Issue No.	35 (cont)	
LM End	3.01	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.574869 °		37.574141 °
				-121.156247 °		-121.152762 °
DWR ID	DWR_RD2092_01_s_2017_35					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 4 : SP\_2018\_RD2092\_116\_35\_20180307\_00007.jpg



View of multiple rodent holes on the waterside slope of the levee. Spring 2017

LM Start	<b>2.82</b>	Rating **	U	Issue No.	<b>35 (cont)</b>
LM End	<b>3.01</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2018\_RD2092\_116\_35\_20180330\_00038.jpg



Looking at Typical view of rodent holes on landward slope within this reach. (Spring 2018)

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	2.82	Rating **	U	Issue No.	35 (cont)	
LM End	3.01	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.574869 °		37.574141 °
				-121.156247 °		-121.152762 °
DWR ID	DWR_RD2092_01_s_2017_35					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 4 of 4 : SP\_2018\_RD2092\_116\_35\_20180330\_00039.jpg



Looking upstream at several rodent holes on landward slope. (Spring 2018)

LM Start	3.47	Rating **	M	Issue No.	984
LM End	3.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.573304 °	37.573304 °
				-121.144747 °	-121.144747 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20945 DS_ID:20572 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears abandoned and if so, should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 3.52)]. FS Date: 9/24/2013					

Photo 1 of 3 : UCIP\_SP\_2018\_20945\_35261.jpg



48-inch CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	03/29/2018 03/29/2018	Richard Willoughby

LM Start	3.47	Rating **	M	Issue No.	984 (cont)	
LM End	3.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.573304 °	37.573304 °	
				-121.144747 °	-121.144747 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20945 DS_ID:20572 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe appears abandoned and if so, should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 3.52)]. FS Date: 9/24/2013						

Photo 2 of 3 : UCIP\_SP\_2018\_20945\_35260.jpg



Grate over sump on LS toe.

LM Start	<b>3.47</b>	Rating **	M	Issue No.	<b>984 (cont)</b>
LM End	<b>3.47</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_20945\_35262.jpg



Grate over sump on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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